

What is claimed is:

1. A method of data access, said method comprising:
precharging a first bitline and a second bitline;
5 permitting charge sharing between a capacitance of a
memory cell and the precharged first bitline;
biasing the precharged second bitline; and
subsequent to said permitting charge sharing, sensing
a difference between a potential of the first bitline and a
10 potential of the biased second bitline.
2. The method according to claim 1, wherein said
biasing includes altering a potential of the second bitline.
- 15 3. The method according to claim 1, wherein said
biasing includes reducing a potential of the second bitline.
4. The method according to claim 1, wherein sensing
a difference between a potential of the first bitline and a
20 potential of the second bitline includes amplifying said
difference.
5. The method according to claim 1, wherein said
permitting charge sharing includes applying a potential to
25 a gate of a transistor of the memory cell.
6. The method according to claim 1, wherein said
biasing includes applying a potential to a bias
capacitor coupled to the second bitline.
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7. A method of data access, said method comprising:
selecting a wordline;
asserting a bias signal corresponding to the wordline;
and
35 sensing a difference between a potential of a bitline
coupled to the wordline and a potential of a reference

bitline,

wherein charge sharing between a memory cell and the bitline occurs as a consequence of said selecting a wordline, and

5 wherein the potential of the reference bitline is altered as a consequence of said asserting a bias signal.

8. The method according to claim 7, wherein said asserting a bias signal occurs subsequent to said selecting
10 a wordline.

9. The method according to claim 7, wherein said sensing includes sensing a difference between the potential of the bitline and the altered potential of the reference
15 bitline.

10. The method according to claim 7, wherein the potential of the reference bitline is reduced as a consequence of said asserting a bias signal.

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11. A method of data access, said method comprising:
precharging a first bitline and a second bitline;
permitting charge sharing between a capacitance of a memory cell and the precharged first bitline;

25 biasing a selected one of the precharged bitlines; and
subsequent to said permitting charge sharing and said biasing, sensing a difference between a potential of the first bitline and a potential of the second bitline.

30 12. The method according to claim 11, wherein said biasing includes altering a potential of the selected bitline.

13. The method according to claim 11, wherein said
35 biasing includes applying a potential to a bias capacitor coupled to the selected bitline.

14. A storage device comprising:
a precharging circuit configured and arranged to precharge a bitline and a reference bitline;
a memory cell configured and arranged to share charge
5 with the bitline;
a bias circuit configured and arranged to alter a potential of the reference bitline; and
a sense amplifier configured and arranged to sense a difference between a potential of the bitline and a
10 potential of the reference bitline.
15. The storage device according to claim 14, wherein the memory cell includes a field-effect transistor and a capacitor.
16. The storage device according to claim 14, wherein the memory cell is coupled to a wordline and is further configured and arranged to share charge with the bitline upon a predetermined alteration in a potential of the
20 wordline.
17. The storage device according to claim 14, wherein the bias circuit is configured and arranged to reduce a potential of the reference bitline.
18. The storage device according to claim 14, wherein the bias circuit includes a bias capacitor coupled to the reference bitline.
19. The storage device according to claim 14, wherein the bias capacitor includes a metal-oxide-semiconductor field-effect transistor having a low threshold voltage.
20. The storage device according to claim 19, wherein
35 a magnitude of the threshold voltage of the metal-oxide-semiconductor field-effect transistor is less than three

hundred millivolts.

21. The storage device according to claim 14, wherein the bias capacitor includes an n-channel metal-oxide-
5 semiconductor field-effect transistor having a low threshold voltage.

22. The storage device according to claim 21, wherein a magnitude of the threshold voltage of the metal-oxide-
10 semiconductor field-effect transistor is less than three hundred millivolts.

23. The storage device according to claim 14, further comprising:
15 a second memory cell configured and arranged to share charge with the bitline;
a first isolation circuit configured and arranged to isolate the memory cell from the sense amplifier; and
a second isolation circuit configured and arranged to
20 isolate the second memory cell from the sense amplifier.